

ILLEGIB

Approved For Release 2001/06/09 : CIA-RDP78T05439A000400230069-1

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~~TOP SECRET RUM~~

NIMA/DOD

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

TCS No. 10668/64
IB No. 423/64
30 November 1964
Copy No. 1

MEMORANDUM FOR: Chief, Manufacturing and Services Division, ORR

ATTENTION :

25X1A

THROUGH :

Chief, Requirements Branch, Reconnaissance Group, CGS

FROM :

Chief, Photographic Intelligence Division, CIA

SUBJECT :

Rail Study of Communist China

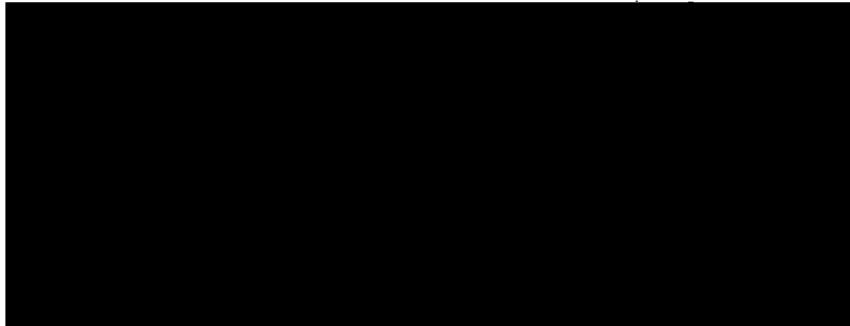
REFERENCES :

- (1) ORR Requirement No. C-RR4-81,487
- (2) CIA/PID Project No. C 1018/64

1. This memorandum is in response to the referenced requirement concerning a railroad study of Communist China on the areas covered by AMS Map Sheet NK 48 and NK 49. This study is designed primarily for the purpose of determining the extent of new rail construction since [REDACTED]

25X1D

2. The study was based on information obtained from the following missions:



25X1D

3. All rail lines observed on the above referenced missions are plotted on the enclosed annotated overlays (CIA/PID/IB-P-1483/64 and CIA/PID/IB-P-1484/64). New construction activity was noted on a spur east of Kue-su. The roadbed from Hao-t'ou to Ta-t'ung has accommodations for a two-track railroad, but only one track was noted. No new work on this double-tracking has been accomplished since [REDACTED]. All abandoned construction is annotated on the enclosed overlays.

25X1D

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

GROUP 1
Excluded from automatic
downgrading and
declassification

~~TOP SECRET RUM~~

5-15172

TOP SECRET RUFF

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HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

TCS No. 10668/64
Page 2

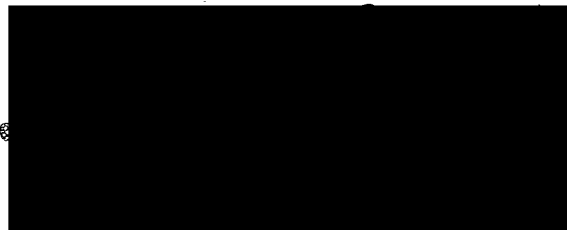
SUBJECT: Rail Study of Communist China

25X1A

25X1A

4. The photo analyst assigned to this requirement was [REDACTED]
[REDACTED] who may be contacted directly on extension 2607 should there be
any questions regarding this study. This requirement is considered
complete as of the date of this memorandum.

25X1A



ENCLOSURES:

2 Overlays

(CIA/PID/IB-P-1483/64 and P-1484/64)

TOP SECRET RUFF

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

5-15172

RUET 501
TOP SECRET RUFF

SECOND EDITION-AMS

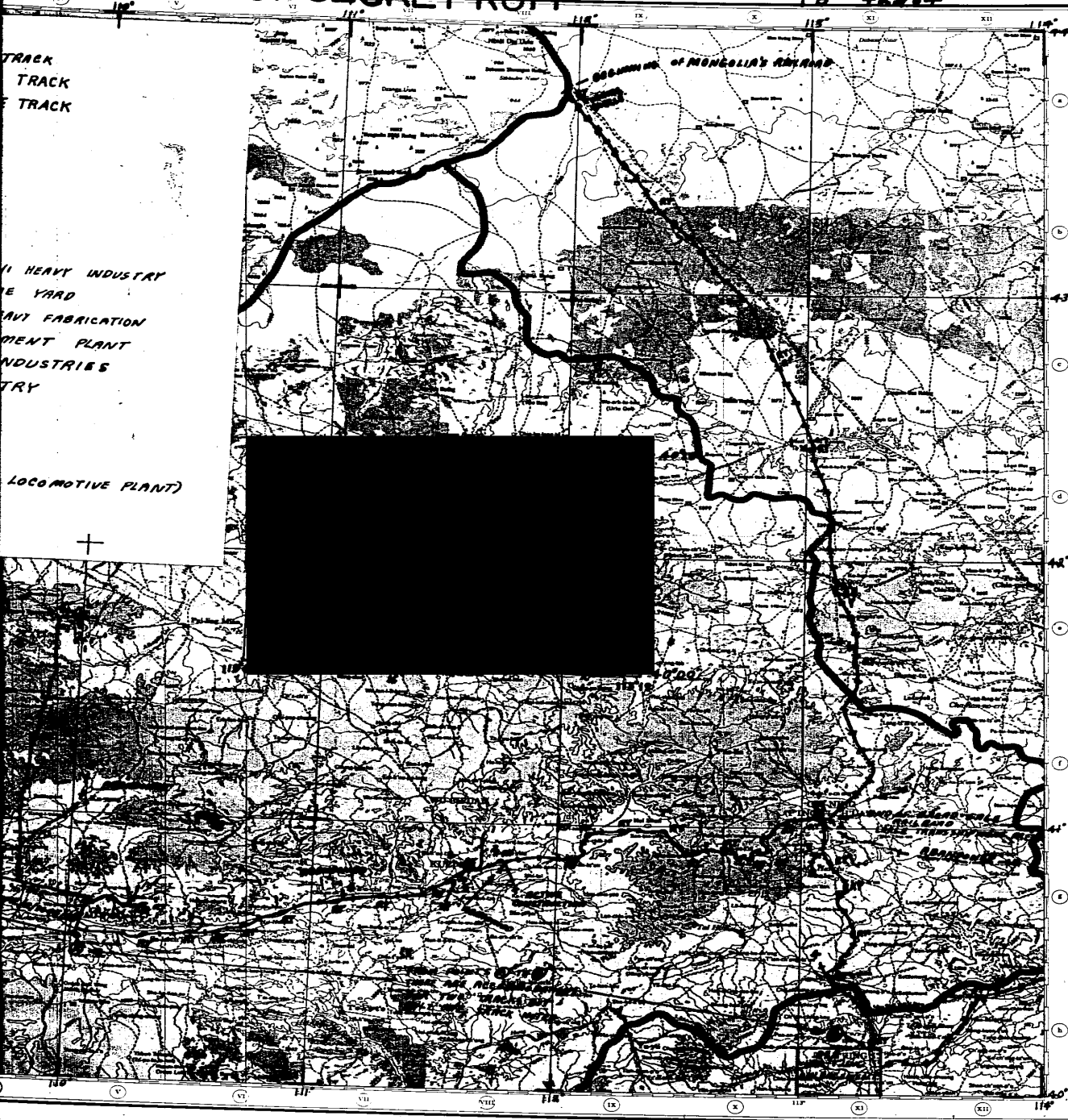
AMS NK 49
TCS 10668/64
LB 422/64

NK 49

TRACK
TRACK
TRACK

HEAVY INDUSTRY
YARD
FABRICATION
MENT PLANT
INDUSTRIES
TRY

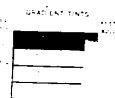
LOCOMOTIVE PLANT)



25X5

TOP SECRET RUFF

PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS, B-53, 798522



ASIA 1:1,000,000

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KUBI-SUI

SECOND EDITION AMS

AMS NK 49
TCS 10668/64
LB 428/64

TOP SECRET RUFF

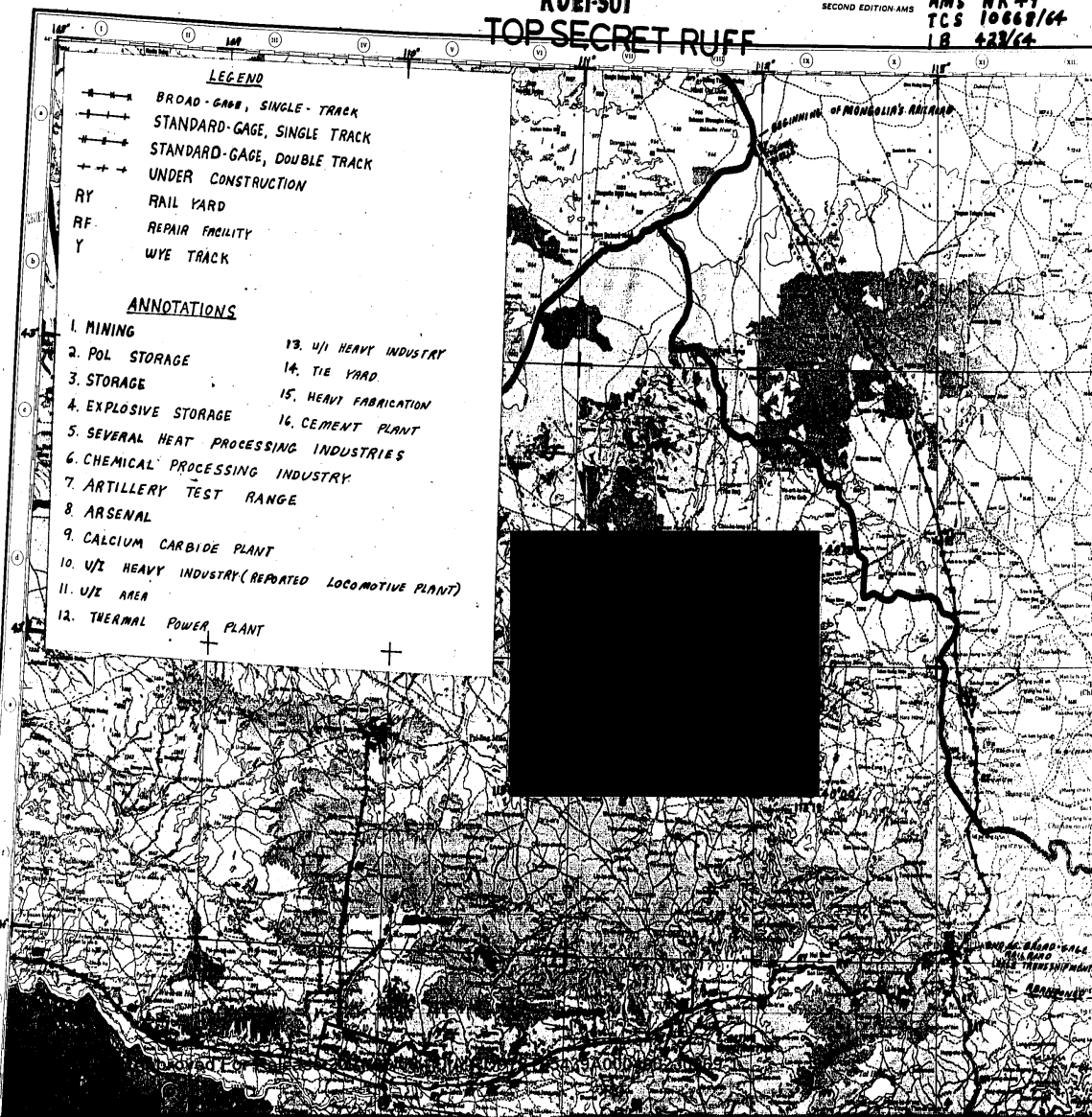
LEGEND

- +—+— BROAD-GAGE, SINGLE-TRACK
- +—+— STANDARD-GAGE, SINGLE TRACK
- +—+— STANDARD-GAGE, DOUBLE TRACK
- +—+— UNDER CONSTRUCTION
- RY RAIL YARD
- RF REPAIR FACILITY
- Y WYE TRACK

ANNOTATIONS

- | | |
|--|------------------------|
| 1. MINING | 13. U/I HEAVY INDUSTRY |
| 2. POL STORAGE | 14. TIE YARD |
| 3. STORAGE | 15. HEAVY FABRICATION |
| 4. EXPLOSIVE STORAGE | 16. CEMENT PLANT |
| 5. SEVERAL HEAT PROCESSING INDUSTRIES | |
| 6. CHEMICAL PROCESSING INDUSTRY | |
| 7. ARTILLERY TEST RANGE | |
| 8. ARSENAL | |
| 9. CALCIUM CARBIDE PLANT | |
| 10. U/I HEAVY INDUSTRY (REPORTED LOCOMOTIVE PLANT) | |
| 11. U/I AREA | |
| 12. THERMAL POWER PLANT | |

25X5



RY UNDER CONSTRUCTION
RF RAIL YARD
Y REPAIR FACILITY
WYE TRACK

ANNOTATIONS

- INDUSTRIATIONS
1. MINING
 2. POL STORAGE
 3. STORAGE
 4. EXPLOSIVE STORAGE
 5. SEVERAL HEAT PROCESSING INDUSTRIES
 6. CHEMICAL PROCESSING INDUSTRY
 7. ARTILLERY TEST RANGE
 8. ARSENAL
 9. CALCIUM CARBIDE PLANT
 10. $1/2$ HEAVY INDUSTRY (REPORTED LOCOMOTIVE PLANT)
 11. $1/2$ AREA
 12. THERMAL POWER PLANT
 13. $1/2$ HEAVY INDUSTRY
 14. TIE YARD
 15. HEAVY FABRICATION
 16. CEMENT PLANT

25X5

AMS 13 **CIA/PID/10-P-1484/64**
Second Edition-1965

[illegible][illegible][illegible]

TOP SECRET RUFF

MODIFIED POLYCONIC PROJECTION OF THE INTERNATIONAL MAP OF THE

HEIGHTS IN METERS

INDEX TO ADJOINING SHEETS

ADMINISTRATIVE INFO

Diagram illustrating the layout of sheets for gluing, showing dimensions and labels:

10 1/2"	10 1/2"	11 1/2"
10 1/2"	10 1/2"	11 1/2"
10 1/2"	10 1/2"	11 1/2"

Labels within the grid:

- Top-left: 10 1/2" x 10 1/2"
- Top-middle: 10 1/2" x 10 1/2"
- Top-right: 11 1/2" x 10 1/2"
- Middle-left: 10 1/2" x 10 1/2"
- Middle-middle: 10 1/2" x 10 1/2"
- Middle-right: 11 1/2" x 10 1/2"
- Bottom-left: 10 1/2" x 10 1/2"
- Bottom-middle: 10 1/2" x 10 1/2"
- Bottom-right: 11 1/2" x 10 1/2"

1. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

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3. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

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6. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

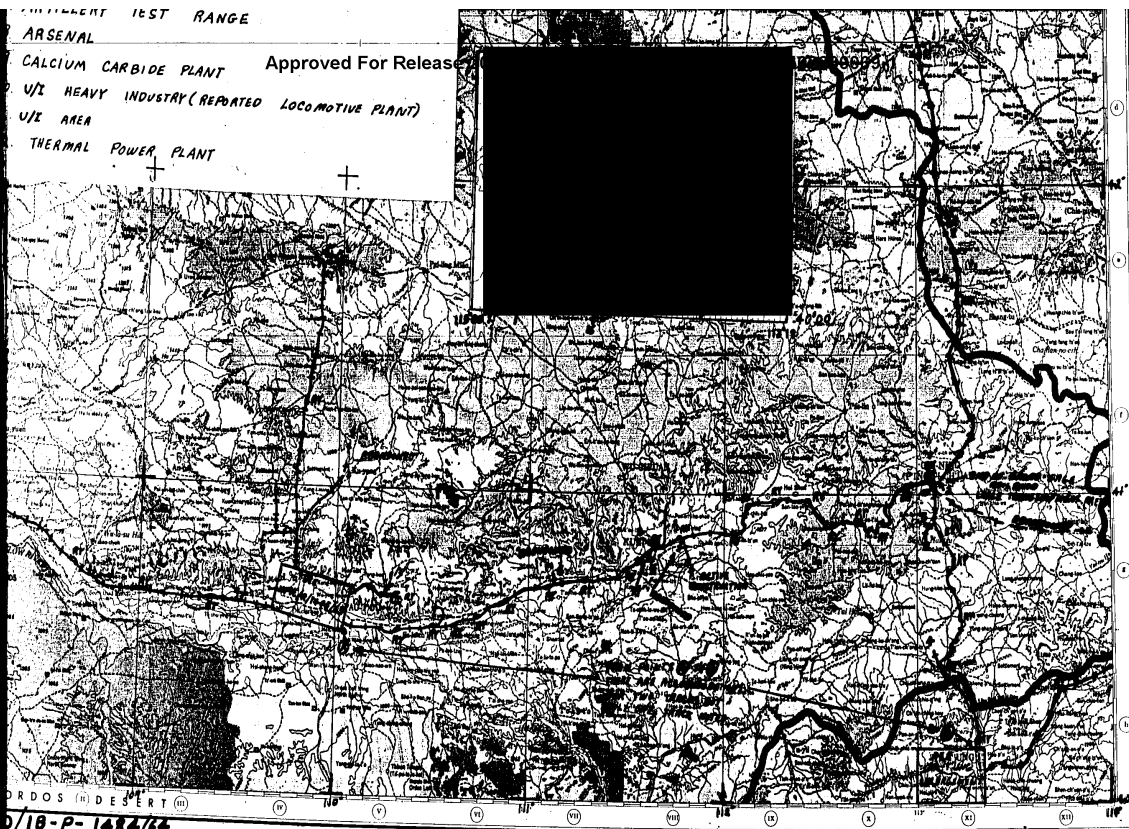
7. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

8. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

9. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

10. Compared to many other countries, the United States has a relatively high level of economic freedom. This is due to a number of factors, including a strong legal system, a stable political environment, and a high level of government transparency.

THERMAL POWER PLANT



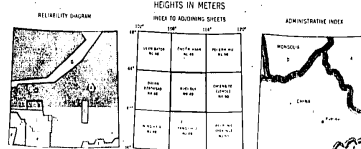
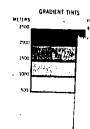
25X5

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Scale 1:1,000,000

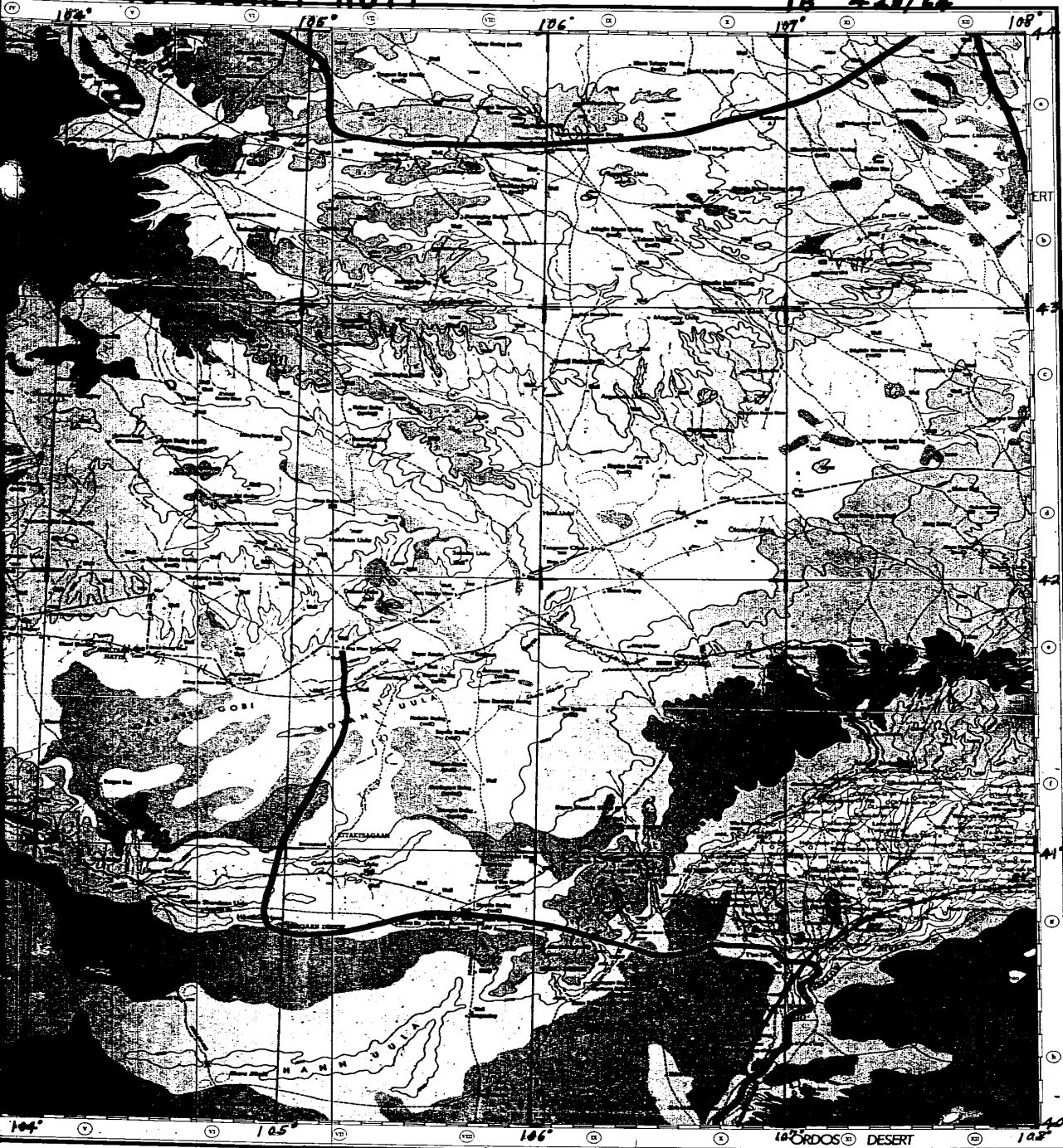
TOP SECRET RUFF

PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS, D-53, 758520

[illegible][illegible][illegible]KUEI-SUI
SOUTHEAST ASIA

DALAN DZADAGAD
TOP SECRET RUFF

FIRST EDITION-AMS
AMS NK 48
TCS 10668/64
18 428/64
NK 48



Scale 1:1,000,000
PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS, 5-52, 760300

TOP SECRET RUFF

RELIABILITY DIAGRAM
HEIGHTS IN METERS
ALTIMETER IN FEET
ADDITIONAL INDEX

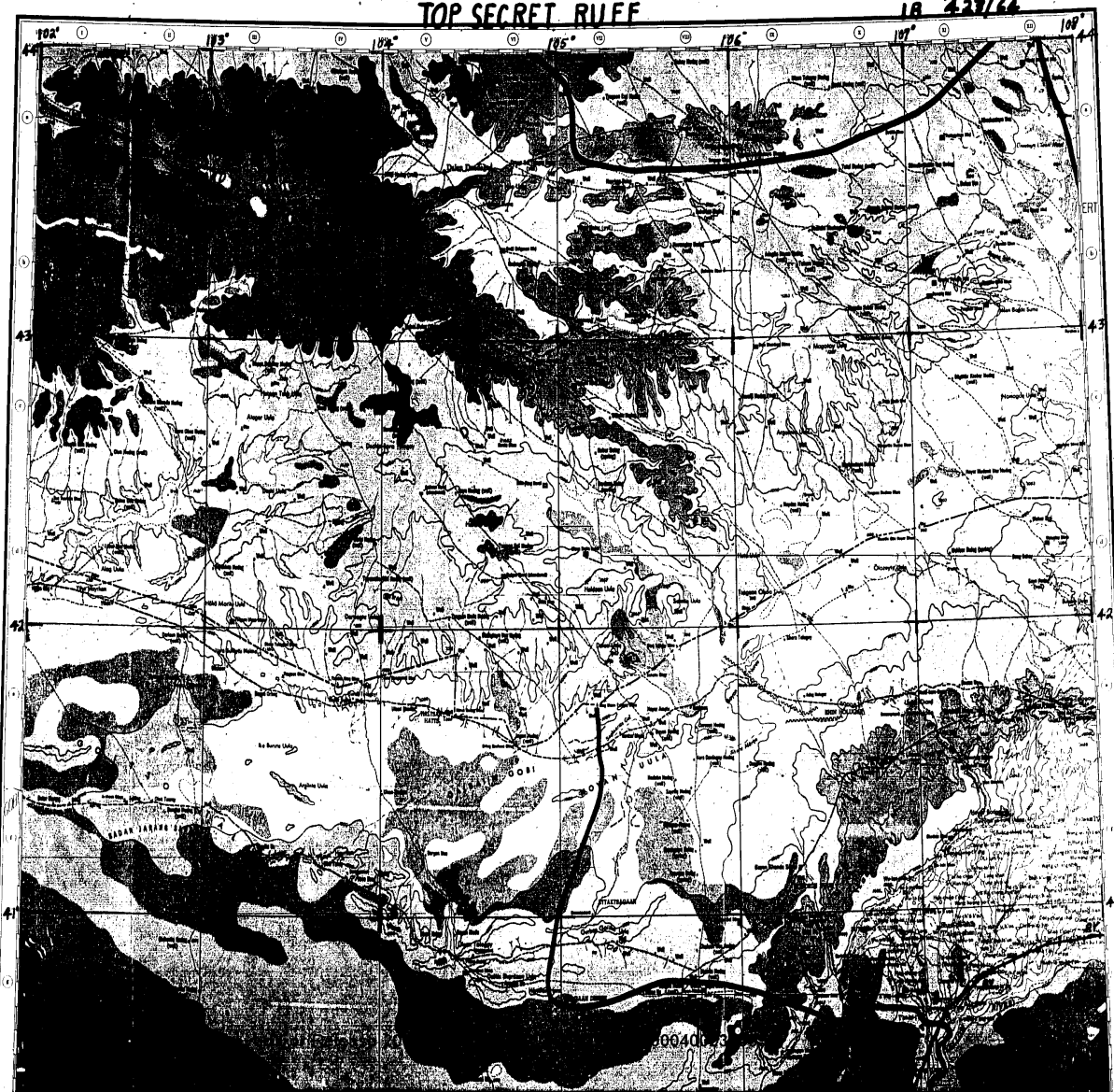
METERS
GRADIENTS
1:1000
1:2000
1:3000
1:4000
1:5000
1:6000
1:7000
1:8000
1:9000
1:10000

ASIA 1:1,000,000

Approved For Release 2001/06/09 : CIA-RDP78T05489A000400230069-1

DAKIN DZADAGAD
TOP SECRET RUFF

AMS NK 48
TCS 10668/64
1B 427/64
NK 48



ASIA 1:1,000,000

Approved For Release 2001/06/09 : CIA-RDP78-05429A000400230069-1

DALAN DZADZAGAD
TOP SECRET RUFF

FIRST EDITION AMS

AMS NK 48
TCS 10668/64
18 438/66

NK 48



10/18-P-1483/64

[illegible]

1000

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1. The first part of the document is a list of names and dates, which appears to be a roster or a list of participants. The names are written in a cursive script, and the dates are written in a more formal, printed style. The list is organized into two columns, with names on the left and dates on the right.

[illegible]

PEI-PING
ULAN BATOR

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

1977-1988

1992

... [illegible] ...

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

10 5 0 5 10 Scale 1:1,000,000

10 20 30 40 50 60 70 80 90 100 Statute Miles

TOP SECRET RUFF

ALL HEIGHTS ARE REFERRED TO MEAN SEA LEVEL.

RELIABILITY DIAGRAM

Aerial photograph showing a road or canal cutting through a landscape.

[illegible]

NAME	DATE	TIME
JOHN DOE	10/10/10	10:00

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, on October 10, 2010.

[illegible]

Approved For Release 2013/10/10 : CIA-RDP78T05420A

Approved For Release 2001/06/09 : CIA-RDP78T05439A000100010001-6

PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS, 9-52, 760000

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate.

1

3000
2500

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

Age Group	2006	2007	2008
18-29	~85	~88	~90
30-49	~75	~78	~80
50-69	~65	~68	~70
70+	~55	~58	~60

100

10

EXPLANATORY NOTES

POPULATED PLACES

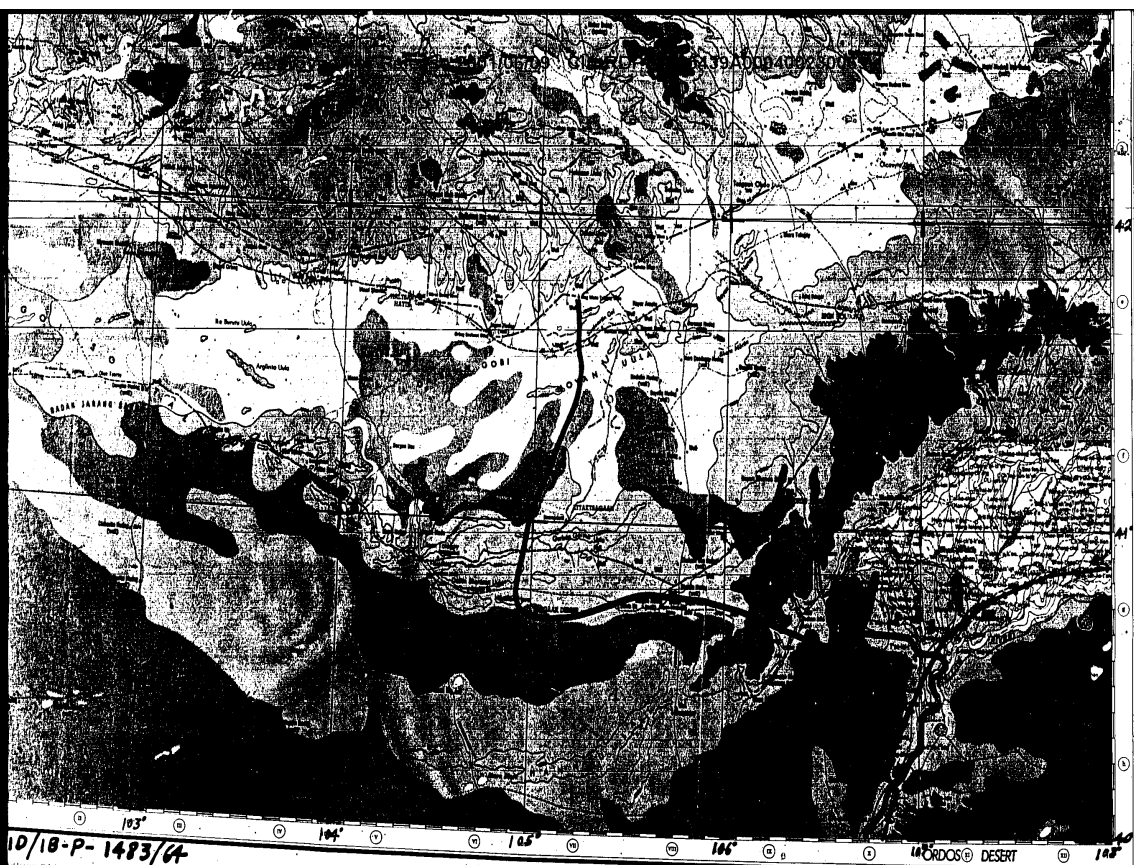
Due to lack of specific census data populated places

The China-Vietnam boundary is indefinite.
All boundary agreements are given in miles.

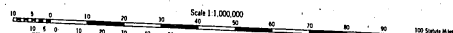
SOUTH AFRICA

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DALAN DZADAGAD
SOUTHEAST ASIA

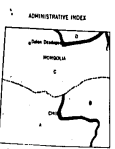
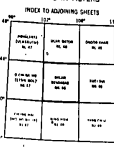


1. *China's Frontiers*, Beijing in 1910. Copied in 1950 from field maps of the Sino-Soviet border. [1910?] *Zapovednyy General Staff*, 1949, Military Map 146 (Photo Survey) of Mongolia.
 2. *General Staff* [1941], *Soviet Gazetteer*, 1:100,000, Chinese Land Survey Directorate, General Staff.
 3. *Atlas des Montagnes du Nord-Est de la Chine*, 1949, Chinese Publishers and Pansu, 1:500,000, *Six Arrows*.
 4. *Atlas General de la République Populaire de Chine*, 1952, China Press, 1:500,000, *Bureau*.
 5. *Atlas*, [1949 Map], *Map of the Peoples' Republic*, 1:1,500,000, *General Staff of the Red Army*,
 6. *Proclamation of the Soviet of the People's Board of Geographic Names*, 1950.



ALL HEIGHTS ARE REFERRED TO MEAN SEA LEVEL

HEIGHTS IN METERS



GLOSSAR

EXPLANATORY NOTES

POPULATED PLACES
Due to lack of specific census data populated places have been classified according to relative importance.

BOUNDARIES
The China-Mongolia boundary is indefinite.
All boundaries shown are approximate.